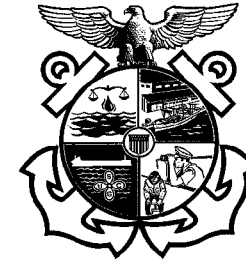


United States Coast Guard



**K-BOAT
INSPECTION BOOK**

Name of Vessel		
Official Number		
Date Completed	Location	
SOLAS Certificates Issued		
Yes	No	
Route		
Oceans	Limited Coastwise	Lakes / Bays / Sounds
Coastwise	Great Lakes	Rivers
Inspection Type		
Inspection for Certification (COI)	Reinspection	Drydock Inspection
Streamlined Inspection Program (SIP) Participant		
Yes	No	
Inspectors		
1. _____	2. _____	

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This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during inspections of U.S. flagged small passenger vessels subject to Subchapter K (vessels under 100 GT, carrying more than 150 passengers or more than 49 overnight passengers). The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

NOTE: Guidance on how to conduct inspections of U.S. flagged small passenger vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

- Review MSIS records.
 - MIPIP
 - MICOI
- Obtain copies of forms to be issued.

- Issue letters/certificates to vessel.
- Complete MSIS entries.
 - MIAR
 - MSDS
 - MIDR
 - VFLD
 - VFID
- Initiate Report of Violation (ROV) if necessary

Name of Vessel

Deficiency

**Req't. Issued /
Date Completed**[illegible]

Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III)	01 JUL 86
<i>Various additional amendments to SOLAS</i>	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex V	31 DEC 88
COLREGS 1972	15 JUL 77
<i>Various additional amendments to COLREGS</i>	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96
1995 Amendments	01 FEB 97

☐ Hull Maintenance and Condition Assessment Program

- Preventative maintenance plan
- Annual hull condition assessment

☐ Preparatory meeting

☐ Duration of underwater survey _____

☐ Site selection

- Sufficient water depth
- Underwater hazards
- "Clear box"

☐ Plans or drawings

- Shell openings
- Docking plugs
- Bilge keels
- Welded seams and butts
- Appendages
- Anodes
- Rudder
- Propeller
- Reference points
- Watertight and oiltight bulkheads

Underwater Survey:

☐ Preliminary examination

- Third party
- Divers

☐ Underwater hull exam

- Third party supervised
- Ultrasonic gaugings

☐ On-site survey

Notes: _____

Vessel Information:

Last Drydocking Date	Next Drydocking Date	
Location of Last Drydocking		
Built Date (use delivery date)		
Overall Length (in feet)		
Maximum Passengers Allowed		
Overnight Accommodations		
Yes	No	If yes, how many? _____

- ☐ Propeller(s) 46 CFR 115.610
- Locknuts
 - Rope guard
- ☐ Tailshaft(s) 46 CFR 115.630
MSM Ch. B3.D
- Stern tube and gland
 - Key and keyway
 - Shaft sleeve or liner
 - Struts and strut bearings

Valves and Through-Hull Fittings:

NOTE: Guidance on valves and through-hull fittings can be found in MSM Volume II, Chapter B3.F.

- ☐ Sea chests, spool pieces, through-hull fittings 46 CFR 115.610
- Strainers removed
 - Welds
 - Strainer fastenings
 - Fastenings
 - Branch connections
- ☐ Sea valves 46 CFR 115.610
- Fitted where required
 - Opened for examination
 - Body
 - Guides
 - Threads
 - Seat
 - Stems
 - Discs
 - Plug cocks
 - Holding down bolts
 - Closure tested (local and/or remote)

Ground Tackle:

- ☐ Proper ground tackle 46 CFR 121.300
- Anchors
 - Cables

Notes: _____

Endors. Date	Exp. Date	Issue Date	Port Issued	ID #	Issuing Agency	Name of Certificate
					FCC	FCC Station License No Change
					FCC	FCC Safety Certificate No Change
					FCC	FCC Operations Permit No Change
					FCC	FCC Marine Radio Operator Permit No Change

- ☐ Hull and/or structural members gauged for material thickness as needed 46 CFR 115.610
- ☐ Fastenings
 - Rivets NVIC 3-68
 - Welding MSM Vol. IV Ch. 6.H
 - Nails, screws, bolts NVIC 7-95
 - Fastenings removed during this inspection
- ☐ Internal structural members 46 CFR 115.610
NVIC 7-95
 - Bulkheads
 - Decks
 - Tank tops
 - Longitudinals
 - Floors
 - Frames
 - Intercostals
 - Stiffeners
 - Beams
 - Connections
 - Signs of electrolysis
- ☐ Vessel carefully examined for fractures and previous fracture repairs
- ☐ Forward peak
- ☐ Lazarette
- ☐ Solid fixed ballast 46 CFR 116.1200

Notes: _____

- ☐ Mate's license 46 CFR 15.810
46 CFR 122.402
 - Name
 - Issue date
 - Tonnage
 - Route

Logs and Manuals:

- ☐ Current training logbook 46 CFR 122.420
 - Date
 - General description of training
- ☐ Lifesaving equipment maintenance record 46 CFR 122.702
SOLAS 74/78 III/18
SOLAS 74/78 III/19
 - Periodic checks as required
 - Onboard training in use of lifesaving equipment (all crew members)
 - Visual inspection of survival craft / rescue boat and launching appliances
 - Operation of lifeboat / rescue boat engines
 - Lifesaving appliances, including lifeboat equipment examined
- ☐ Bridge log
 - Steering gear drills SOLAS 74/78 V/19-2
 - Emergency steering drills
 - Monthly fire and lifeboat drills SOLAS 74/78 III/25
 - Casualties (navigation equipment and steering gear failures reported) 46 CFR 122.702
46 CFR 122.520
46 CFR 122.524
- ☐ SOLAS training manual SOLAS 74/78 III/18.2

Notes: _____

General alarms / signals	Familiarity with duties	Boat release
Muster lists	Provide equipment	Boat operation
Muster of crew / passengers	Familiarity with equipment	Egress procedures
Crew response	Lower lifeboat	Davit-launched liferaft drill
Language understood by crew	Brake operation	Communication w/ bridge
Lifejackets	Engine start	Lighting

Location: _____ Time to Water: _____

Notes: _____

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- Sound
 - Whistle / horn tested 33 CFR Part 86
 - Proper bell size
- Distress
 - Flares and day smokes (correct number and expiration) 46 CFR 117.68
 - Stowed in brightly colored, portable watertight container
 - Marked “Distress Signals” 46 CFR 122.614
 - Substitutions with proper expiration date

☐ Internal communications tested 46 CFR 121.602

- | | | |
|--------------------------|---|----------------|
| <input type="checkbox"/> | Pilothouse control of propulsion engine systems | 46 CFR 121.620 |
|--------------------------|---|----------------|

Notes: _____

☐ Emergency lighting tested 46 CFR 120.432

- Type _____
- Automatically activated
- Not portable
- Connected to battery charger
- Operating capacity—2 hours
- Emergency lighting system that complies w/Sub J (vessels > 65 feet that either carry > 600 passengers or have overnight accommodations for > 49 passengers)

Pollution Prevention:

☐ Pollution placard posted 33 CFR 155.450

☐ MARPOL V placard posted 33 CFR 151.59

☐ Bilges free of oil and trash / debris 46 CFR 115.830

☐ Marine sanitation device

- Type _____ 46 CFR 115.818
46 CFR 121.704
- Sanitary
- Discharge valve secured MSM Ch. C2.K.7.f(1)
- Tank vent 30 x 30 mesh screen 33 CFR 159.95
- ¾-full level indicator 33 CFR 159.83

Notes: _____

☐ Bridge windows

- Safety glass 46 CFR 116.1010
- Adequate strength 46 CFR 116.1020
- Allow 70% light / safety glass 46 CFR 116.1030

Structural Integrity:

☐ External hull structure 46 CFR 115.802
46 CFR 116.300

- Decks
- Shell
- Bulkheads
- Strength members
- Visible damage
- Obvious repairs, modifications, or alterations
- Rails / guards

☐ Hull markings 46 CFR 122.602

- Draft marks and loading marks 46 CFR 67.123
- Name / hailing port

☐ Internal compartment structures 46 CFR 115.802

- Dry
- Visible damage
- Obvious repairs, modifications, or alterations
- Means of escape
- Ceilings
- Inspection ports / ventilation
- Rails / guards

☐ Structural fire protection boundaries 46 CFR 116.415

- Bulkheads and decks meet required rating
- Penetrations equal to bulkhead rating
- Main vertical zones
- Draft stops

Notes: _____

Electrical Equipment:

- ☐ Primary power and light system tested
 - Voltage _____ 46 CFR 115.806
 - Electrical source 46 CFR 120.310
 - Generator 46 CFR 120.312
 - Battery
 - Grounding 46 CFR 120.376
- ☐ Main engine generators 46 CFR 120.310(b)
- ☐ Independent generators 46 CFR 120.320
 - Multiple generators 46 CFR 120.322
 - Independent prime movers
 - Circuit breakers interlocked
 - Parallel operation must meet Subchapter J
- ☐ Batteries (and alternator, if required) 46 CFR 120.310
 - Overload protection 46 CFR 120.350
 - Ventilation 46 CFR 120.354
 - Protective covering
 - Battery charger with ammeter connected to charging circuit
 - Cable connectors permanent
 - Corrosion-resistant tray or mounting

Service	Location

Notes: _____

- ☐ Watertight integrity 46 CFR 115.802
 - Subdivision watertight bulkheads 46 CFR 116.1160
 - Watertight doors / hatches 46 CFR 171.124
 - Operable from both sides
 - Captive devices attached to all unhinged covers
 - Coamings (6 inches-exposed routes; 3 inches-protected routes)
 - Knife edges
 - Gaskets
 - Hardware
 - Closure means for openings in hull (local and remote)
- ☐ Scuppers / freeing ports 46 CFR 171.145
 - 46 CFR 171.150
- ☐ Dead light covers on port lights below main deck 46 CFR 171.117
- ☐ Deck rail 46 CFR 116.900
 - Height requirements (39.5 inches minimum)
 - Point load requirements (200 lbs. minimum)

General Health and Safety:

- ☐ General alarm tested 46 CFR 120.550
- ☐ Upper decks marked for maximum number of passengers per stability letter 46 CFR 122.602(g)
- ☐ Crew accommodations 46 CFR 116.730
 - (vessels > 65 feet with > 49 overnight accommodations must comply with applicable Subchapter H requirements)
 - Adequate berthing 46 CFR 116.710
 - Sanitary conditions 46 CFR 115.818
- ☐ Passenger accommodations
 - Adequate berthing 46 CFR 116.810
 - Adequate seating 46 CFR 116.820
 - Sanitary conditions 46 CFR 115.818

Notes: _____

- ☐ Ventilation of machinery installations 46 CFR 119.465
46 CFR 119.470
- Engineroom intake and exhaust ventilation
 - Closure devices for spaces with fixed gas extinguishing system
 - Ducts secured and supported

Ventilators	Number and Type	
	Natural	Forced Air
Machinery Space		
Fuel Tank Space		

- ☐ Machinery guards 46 CFR 116.960
- Installed over exposed gears
 - Belts
 - Rotating machinery
- ☐ Vital systems piping 46 CFR 119.710
- ☐ Non-metallic piping materials 46 CFR 119.720
46 CFR 56.60-25
- ☐ Watertight bulkheads
- Piping
 - Metallic through fittings 46 CFR 119.710
 - Valves
 - Valve with reach rod 46 CFR 171.111
 - Free of sluice valves 46 CFR 171.114(b)
 - Operable
- ☐ Shaft log free of excess leakage 46 CFR 115.800
- Reasonable dripping
 - Testing ahead and astern
 - Remaining adjustment on stuffing box bolts

Notes: _____

Ground Tackle:

- ☐ Proper ground tackle 46 CFR 121.300

Number of Anchors	Weight (lbs.)

Number of Cables	Length	Size

- ☐ Mooring lines 46 CFR 121.300
- ☐ Sails and rigging 46 CFR 116.330

Lifesaving Equipment:

- ☐ Stowage of survival craft 46 CFR 117.130
46 CFR 117.137
- ☐ Embarkation aids 46 CFR 117.150
- ☐ Number and type of survival craft 46 CFR 117.200

Item	Number	Capacity (Persons)

Notes: _____

- ☐ Fire axe (vessels > 65 feet) 46 CFR 118.600
 - Located in or near primary operating station
- ☐ Fire pumps tested 46 CFR 118.300
 - Piping
 - Manifold and valves
 - Witness water stream

Machinery:

- ☐ Main steering system tested 46 CFR 115.814
46 CFR 119.600
46 CFR 58.25
MSM Ch. C4
 - Type _____
 - Rudder packing
 - Hoses
 - Tubing
 - Piping
 - Tiller arms and connectors double-nutted / cotter pinned
- ☐ Auxiliary steering system (if required) operable 46 CFR 115.814
46 CFR 119.600
46 CFR 58.25
MSM Ch. C4
 - Type _____
- ☐ Main propulsion engine tested 46 CFR 115.804
46 CFR 119.200
46 CFR 121.620
 - Capable of being secure from pilothouse
 - Independent of speed control
 - Foundations 46 CFR 121.620
 - Controls 46 CFR 119.410(b)
 - Gauges
 - Engine RPM / oil pressure / water temperature operational and visible at each operating station
 - Safety devices
 - Lubrication system 46 CFR 115.804
 - Oil / water leaks
 - Engineroom 46 CFR 115.830
 - Clean and free of fire hazards

Notes: _____

- ☐ Survival craft maintenance (vessels > 65 feet)
 - Manufacturer's instructions on board 46 CFR 122.702
 - Inspections / examinations logged 46 CFR 122.720
 - Weekly / monthly / quarterly / annually inspected / examined 46 CFR 122.724
46 CFR 122.726
- ☐ Lifejackets 46 CFR 117.71
 - Adult _____ Children _____ (10%)
 - Retro-reflective tape 46 CFR 122.604(h)
 - Lights (vessels on oceans / coastwise / Great Lakes routes) 46 CFR 117.75
 - Watertight
 - Batteries dated or changed annually
 - Marked with vessel name 46 CFR 122.604(b)
 - Stowage 46 CFR 117.78
 - Marked
 - Child size PFDs separate from adult PFDs 46 CFR 122.604(f)
 - Unlocked
 - If over 7 feet high, check quick release mechanism
 - PFDs carried in addition to lifejackets 46 CFR 117.72
 - Number of lifejackets rejected by inspector _____
- ☐ Lifejacket donning placards posted 46 CFR 122.516
- ☐ Ring lifebuoys 46 CFR 117.70
 - Orange if vessel on oceans / coastwise
 - Lifeline (60 feet long)
 - Waterlight with 3-foot lanyard and corrosion-resistant clip
 - Retro-reflective tape 46 CFR 122.604(i)
 - Marked with vessel name 46 CFR 122.604(a)
 - Stowage (not permanently secured) NVIC 1-87
 - Vessels < 26 feet may carry 20-inch ring

Number with Lights	Number with Lines	Number of Others
Total Number of Ring Lifebuoys		

Notes: _____
